

XXIII. *An Observation on the Planet Venus, (with regard to her having a Satellite) made by Mr. James Short, F. R. S. at Sunrise, October 23. 1740.*

**D**irecting a reflecting Telescope of 16.5 Inches Focus, (with an Apparatus to follow the diurnal Motion) towards *Venus*, I perceived a small Star pretty nigh her; upon which I took another Telescope of the same focal Distance, which magnified about 50 or 60 times, and which was fitted with a Micro-meter, in order to measure its Distance from *Venus*; and found its Distance to be about  $10^{\circ}. 2'. 0''$ . Finding *Venus* very distinct, and consequently the Air very clear, I put on a magnifying Power of 240 times, and, to my great Surprise, found this Star put on the same Phasis with *Venus*. I tried another magnifying Power of 140 times, and even then found the Star under the same Phasis. Its Diameter seemed about a Third, or somewhat less, of the Diameter of *Venus*; its Light was not so bright or vivid, but exceeding sharp and well defined. A Line, passing through the Centre of *Venus* and it, made an Angle with the Equator of about 18 or 20 Degrees.

I saw it for the Space of an Hour several times that Morning; but the Light of the Sun increasing, I lost it altogether about a Quarter of an Hour after Eight. I have looked for it every clear Morning since, but never had the good Fortune to see it again.

*Cassini,*

*Cassini*, in his *Astronomy*, mentions much such another Observation.

I likewise observed Two darkish Spots upon the Body of *Venus*; for the Air was exceeding clear and serene.

XXIV. *An Occultation of Jupiter and his Satellites by the Moon, October 28. 1740. in the Morning; observed at Mr. George Graham's, F. R. S. House in Fleetstreet, London, by Dr. Bevis and Mr. James Short, F. R. S.*

Times by the Clock,	Apparent Times.	
<i>October 26.</i>	<i>October 27.</i>	
Clock above Stairs.		
h. ' "	h. ' "	
23. 46. 38.	0. 0. 0.	
Clock be- low.		
14. 49. 4.	15. 2. 25.	THE Sun's Centre passed the Meridian in the Transitory.
		The Moon's illuminate Limb preceded <i>Jupiter</i> in Right Ascension 1'. 38". in time.
14. 52. 32.	15. 5. 53.	The same Limb preceded <i>Jupiter</i> 1'. 31".
		These were taken with a reflecting Telescope, 9 Inches